

## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/526,437	03/15/2000	John M. Greene	1488.0710005/EKS/KRM	9631	
7590 01/23/2002 Sterne Kessler Goldstein & Fox PLLC			EXAMINER		
1100 New York Avenue N W Suite 600 Washington, DC 20005-3934			SEHARASEYON,	JEGATHEESAN	
,, acg,			ART UNIT PAPER NUMBER		
			1647		
		~	DATE MAILED: 01/23/2002	, (	

Please find below and/or attached an Office communication concerning this application or proceeding.

• ,								
Office Action Summary		Applicatio	n No.	Applicant(s)				
		09/526,43	7	GREENE ET AL.				
		Examiner		Art Unit				
			an Seharaseyon	1647				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE N - Exten after S - If the - If NO - Failun - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, apply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no ever y within the statu will apply and will , cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 19 N	November 2	<u>001</u> .					
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is	non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	on of Claims							
4)⊠	4) Claim(s) 19-60 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>19-38,57 and 58</u> is/are allowed.								
6)⊠ Claim(s) <u>39-56,59 and 60</u> is/are rejected.								
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction and/or	r election re	quirement.					
Application	on Papers							
9)☐ The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the							
11)□ 1	The proposed drawing correction filed on			ved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
•	nder 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment	•	-						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u>	and 6 .		Patent Application (PTO-152)				

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## **DETAILED ACTION**

1. This office action is response to Applicant's election of Group I, claims 19-60, which are drawn to antibodies and compositions. Election was made with traverse in Paper No. 10 (11/19/01). The traversal is on the ground(s) that the search of all three groups would not impose a serious burden on the Office. This is not found to be persuasive because the invention of Group I is drawn to a composition whereas inventions II and III are drawn to two independent methods. These methods are practiced with materially different process steps for materially different purposes and each method requires a non-coextensive search because of different stating materials, process steps and goals necessitating a search that would be an undue burden on the office. Therefore, the restriction requirement is deemed proper and made FINAL.

## **Drawings**

2. The drawings, filed on 3/15/00 have been objected to by the draftsperson (see PTO 948). A proper drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application.

## Claim Rejections - 35 USC § 112, first paragraph

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3a. Claims 39-43 and 48-52 are rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time

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the application was filed, had possession of the claimed invention. The invention is directed to antibodies which bind to allegedly novel proteins encoded by novel DNA sequences. Since the proteins are essential to the claimed invention they must be obtainable by a repeatable method set forth in the specification or otherwise readily available to the public. If the proteins are not so obtainable or available, the requirements of 35 U.S.C. § 112 may be satisfied by a deposit of the disclosed DNA encoding protein of SEQ ID NO: 2. The specification does not disclose a repeatable process to obtain the proteins and it is not apparent if they are readily available to the public. It is noted that the applicants have deposited the cDNA with ATCC (Page:4, line 25). However, it is unclear if the deposit was made under the Budapest Treaty guidelines. If the deposit is made under the Budapest Treaty, then an affidavit or declaration by Applicant, or a statement by an attorney of record over his or her signature and registration number, stating that the specific DNA encoding protein of SEQ ID NO: 2 has been deposited under the Budapest Treaty and that the DNA will be irrevocably and without restriction or condition released to the public upon the issuance of a patent, would satisfy the deposit requirement made herein. If the deposit is not made under the Budapest Treaty, then in order to certify that the deposit meets the criteria set forth in 37 C.F.R. §§ 1.801-1.809, Applicant may provide assurance of compliance by an affidavit or declaration, or by a statement by an attorney of record over his or her signature and registration number, showing that (a) during the pendency of this application, access to the invention will be afforded to the Commissioner upon request;

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(b) all restrictions upon availability to the public will be irrevocably removed upon granting of the patent;

- (c) the deposit will be maintained in a public depository for a period of 30 years or 5 years after the last request or for the effective life of the patent, whichever is longer;
- (d) a test of the viability of the biological material at the time of deposit will be made (see 37 C.F.R. § 1.807); and
- (e) the deposit will be replaced if it should ever become inviable. Applicant's attention is directed to M.P.E.P. §2400 in general, and specifically to §2411.05, as well as to 37 C.F.R. § 1.809(d), wherein it is set forth that "the specification shall contain the accession number for the deposit, the date of the deposit, the name and address of the depository, and a description of the deposited material sufficient to specifically identify it and to permit examination. The specification should be amended to include such information, however, Applicant is cautioned to avoid the entry of new matter into the specification by adding any other information. Finally, Applicant is advised that the address for the ATCC has recently changed, and that the new address should appear in the specification.

The new address is:

American Type Culture Collection 10801 University Boulevard Manassas, VA 20110-2209

Claims 44-47, 53-56, 59 and 60 are rejected insofar as they depend on rejected claims 39 and 48.

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3b. Claims 41, 48 and 50 recites a "mature portion of a protein", however, the instant specification fails to describe the portion of the protein, which is the "mature" portion. Applicant is claiming a very specific species, which is not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The structure of a "mature portion of a protein" cannot be predicted on the basis of the amino acid sequence of the entire protein since the protein may be proteolytically cleaved in vivo, as well as being differentially processed based on which in tissue the protein is expressed. The claims are directed to a species of protein, the structure of which cannot be determined or predicted from full-length amino acid sequence and the specification does not evidence isolation or conception of the structure of the "mature portion of a protein"; therefore, the specification does not provide an adequate written description of a mature protein, and thus the claimed invention, to the extent that it reads upon mature protein was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Further, the structure of the "mature" protein will be host cell specific; i.e. *E. coli* will produce a form of the protein which is the "mature" form in that host where as an insect host may produce a different form which will also be a "mature" form. Therefore, the instant specification fails to describe "mature" because this is a specific structure for which there is insufficient evidence to establish that the invention was described in the

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specification in such a way as to reasonably convey to one skilled in the relevant art that

the inventor(s), at the time the application was filed, had possession of the claimed

invention. Claims 53-56, 59 and 60 are rejected insofar as they depend on rejected

claims 48.

4. Claims 39-56, 59 and 60 are rejected. Claims 19-38, 57 and 58 are allowable.

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jegatheesan Seharaseyon whose telephone number is 703-305-1112. The examiner can normally be reached on M-F: 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Kunz can be reached on 703-308-4623. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-0294 for

regular communications and 703-308-4227 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

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January 22, 2002

JEFFREY STUCKER

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